15MR53 USN

Fifth Semester B.E. Degree Examination, June/July 2019 **Marine Auxiliary Machines - I**

Time: 3 hrs.

Max. Marks: 80

(08 marks)

(08 Marks)

• • •	N	ote: Answer any FIVE full questions, choosing ONE full question from each n	nodule.
		Module-1	
1	a.	Explain briefly about the bunkering procedure.	(08 Marks)
•	b.	Write the colour coding for Fuel oil, Lube oil, Fresh water, air and seawater.	(08 Marks)
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		OR S	
2	a.	write short notes on:	
		i) Ballasting ii) De-Ballasting.	(08 Marks)
	h	ii) De-Ballasting. Explain briefly about hydrophore system.	(08 Marks)
	b.		
		Module-2	(10 Marks)
3	a.	Explain briefly about the butterfly valve and quick closing valve.	(06 Marks)
	b.	Write about strainers and filters used on board.	(00 141a1 ks)
		OR	
4	a.	Explain the following valves:	
		i) Pressure reducing valve	(10 marks)
		ii) Relief valve.	(10 marks)
	b.	Write short notes on:	
		i) Magnetic filter	
		ii) Rotary filter iii) Fine filter.	(06 Marks)
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		Module-3	
5	a.	Explain briefly about:	
		i) Centrifugal pumpii) Screw pump.	(10 marks)
	b.		(06 marks)
	U.		
,		OR OR	(08 marks)
6	a.	Explain briefly about reciprocating pump. Explain briefly about diaphragm pump.	(08 Marks)
	b.		
	6	Module-4	(08 Marks)
7	a.	Explain briefly about two stage air compressors.	(08 Marks)
	b.	Explain reverse Osmosis desalination plant.	(00 1111115)
		OR	(00
8	a.	Explain shell type heat exchanger.	(08 marks) (08 Marks)
	b.	Explain tube type heat exchanger.	(00 Marks)
		Module-5	(00
9	a.	Explain briefly about the hydraulic telemotor system.	(08 marks)
	b.		(03 marks)
		OR	

Explain briefly about the emergency steering gear operation. Define steering system and its types.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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